untitled16

April 4, 2025

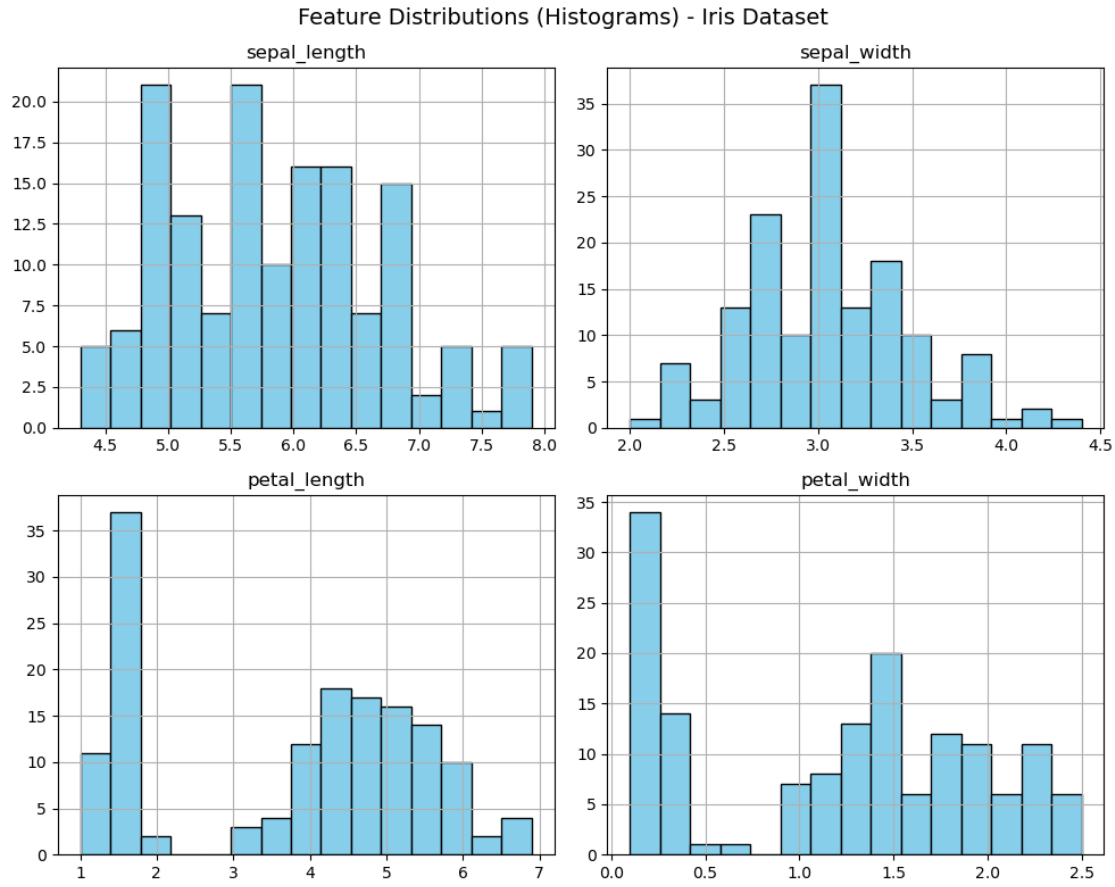
[2]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt

# Load the Iris dataset
df = sns.load_dataset('iris')
df.head()
```

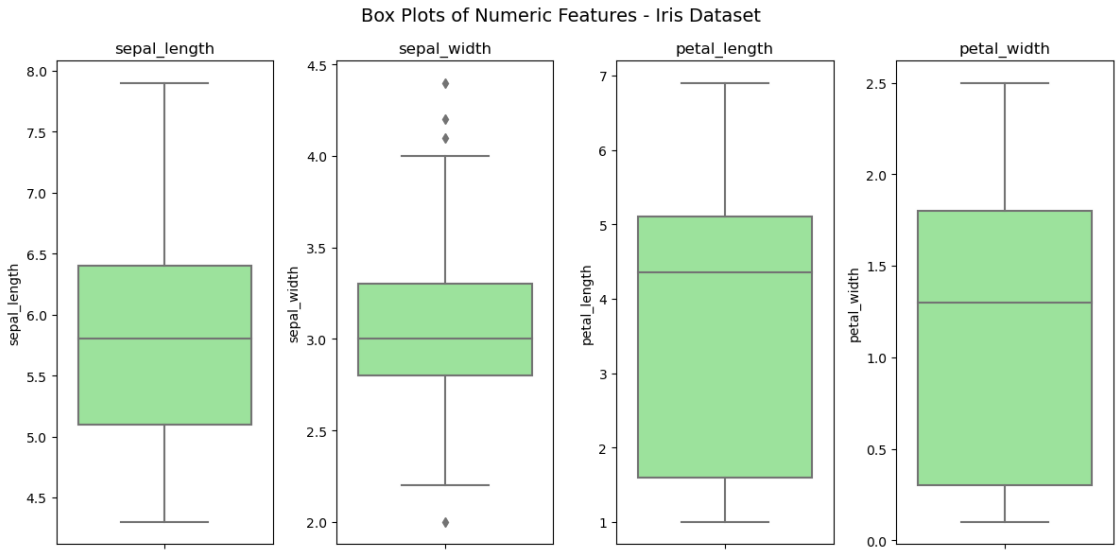
[2]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

[3]:
```
# Create histograms for each numeric feature
df.hist(figsize=(10, 8), bins=15, color='skyblue', edgecolor='black')
plt.suptitle("Feature Distributions (Histograms) - Iris Dataset", fontsize=14)
plt.tight_layout()
plt.show()
```



[4]:
```
# Create box plots for each numeric feature
plt.figure(figsize=(12, 6))
for i, column in enumerate(df.select_dtypes(include='number').columns):
    plt.subplot(1, 4, i + 1)
    sns.boxplot(y=df[column], color='lightgreen')
    plt.title(column)
plt.suptitle("Box Plots of Numeric Features - Iris Dataset", fontsize=14)
plt.tight_layout()
plt.show()
```


Box Plots of Numeric Features - Iris Dataset
sepal_length
sepal_width
petal_length
petal_width
sepal_length
sepal_width
petal_length
petal_width

[ ]: